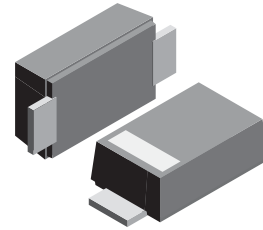


# 1N4150W - 1N4151W

## SURFACE MOUNT FAST SWITCHING DIODE

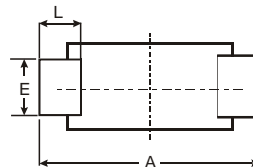
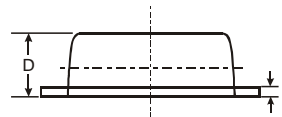
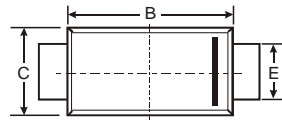


### Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application

### Mechanical Data

- Case: SOD-123FL plastic body over passivated junction
- Terminals : Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight: 0.0007 ounce, 0.02 grams



SOD-123FL			
Dim	Min	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

### Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	1N4150W	1N4151W	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	50	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	50		V
RMS Reverse Voltage	$V_{R(RMS)}$	35		V
Forward Continuous Current (Note 1)	$I_{FM}$	400	300	mA
Average Rectified Output Current (Note 1)	$I_o$	200	150	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\mu\text{s}$ @ $t = 1.0\text{s}$	$I_{FSM}$	4.0 1.0	2.0 0.5	A
Power Dissipation (Note 1)	$P_d$	410	500	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300		K/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150		$^\circ\text{C}$

### Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	1N4150W	1N4151W	Unit
Forward Voltage Drop (Note 4)	$V_{FM}$	1.0		V
Peak Reverse Leakage Current @ $V_R = 50\text{V}$	$I_{RM}$	100	50	nA
Typical Junction Capacitance ( $V_R = 0\text{V DC}$ , $f = 1.0\text{MHz}$ )	$C_j$	2.5	2.0	pF
Reverse Recovery Time (Note 2, 3)	$t_{rr}$	4.0	2.0	nS

- Note: 1. Valid provided that terminals are kept at ambient temperature.  
 2. 1N4150W: Measured with  $I_F = I_R = 200\text{mA}$ ,  $I_{RR} = 0.1 \times I_R$ ,  $R_L = 100\Omega$ .  
 3. 1N4151W: Measured with  $I_F = I_R = 10\text{mA}$ ,  $I_{RR} = 1.0 \times I_R$ ,  $R_L = 100\Omega$ .  
 4. 1N4150W: Measured with  $I_F = 200\text{mA}$ . 1N4151W: Measured with  $I_F = 10\text{mA}$

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)